



NUI Galway  
OÉ Gaillimh

College of Science  
and Engineering



# Computer Science and Information Technology

Bachelor of Science

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## Bachelor of Science

### ATTAIN THE SKILLS TO INVENT TOMORROW

Are you a problem solver? Are you inspired by the digital revolution that is taking place right now? Are you eager to be part of our evolving future where our daily lives are being shaped by the possibilities that high tech computing and information technology offer?

At NUI Galway, we can provide you with the knowledge to harness your creativity and your ambition to make your dreams possible. You can be part of the select few who will shape the future, equipped with a BSc Computer Science and Information Technology degree.

### INTO THE FUTURE

We interact with programmable devices every day that store, process, transmit and retrieve information — music, videos, messages, games, online communities, sat-nav, and many more. The exponential growth of digital information worldwide is staggering (doubling every two years).

Within the realms of Computer Science and Information Technology, there are new problems to be solved and challenges to be met. There are new products to be designed and new technologies to be invented that will play a central role in our future lives. At NUI Galway, we will cultivate your enthusiasm and creativity and give you the scientific knowledge to be a part of this innovation.

There is strong demand for Computer Science and Information Technology graduates. Almost 70% have at least one job offer before graduating and even entry level positions command a high salary scale.

### PROGRAMME OUTLINE

This four-year Honours degree programme brings together a diverse range of Computer Science and Information Technology subjects, built on a modern scientific foundation. You will engage in laboratory sessions, tutorials, lectures, and team projects, combined with a rewarding professional experience in a high-tech company. For example, Microsoft, IBM, Fidelity, Cisco, SAP, Intel, Ericsson, Xperi.

The GY350 programme at NUI Galway has a proven track record spanning 20 years with graduates that excel in varied Computer Science and Information Technology application areas — such as digital media and games development, software engineering, medical informatics, IT consulting and energy informatics.

This is a professional degree programme accredited by Engineers Ireland that has problem-based learning at its core. You will acquire an in-depth knowledge of mathematical and computer science foundations, software engineering technologies, and an exciting array of practical application areas. You will consolidate this with a professional placement in industry and a major final year project.

With a growing diversity of opportunities in the digital world, new and emerging careers are evolving. With your flexible qualification, you can target specific careers that interest you and directly relate to your skills and talents. Of course, you can always start your own business!

### ENTRY REQUIREMENTS

Applicants must have at least two honours and four passes in Leaving Certificate subjects, including:

- Mathematics (at least O2/H6); Irish (unless exempt); English.
- Any other three subjects.

### APPLICATION PROCEDURE

Application for the GY350 programme is through the CAO.

### WHY CHOOSE THIS SUBJECT?

- The modern world is increasingly reliant on complex application software, mobile devices and ever faster data networks. We are currently undergoing a big transition in the way we use information and networked technologies in our daily lives.
- The Computer Science and Information Technology programme focuses on providing you with the key technical and professional skills needed to shape our future and to design high-quality solutions for a wide range of application domains.
- If you want to contribute to some of the most exciting future technology developments then completing this course is the best possible start on that career path.

### FIND OUT MORE

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"I thoroughly enjoyed my 4 years studying Computer Science and Information Technology in NUIG. The variety of subjects gave me a great opportunity to explore all areas of IT and find what I was good at and what I loved. The lectures and staff in Computer Science are the most helpful tutors and mentors I could have asked for and were very approachable and kind when any difficulties arose. I really would recommend the course to anyone with an interest in technology and you will meet some really fantastic people along the way. I've made lifelong friends from the course and with a great degree behind me."

Grace Dwyer  
BSc Computer Science and  
Information Technology Graduate